BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 17.00Lakhs

Name of Work:-**Improvements of roads and drains in A sector in ward no:04 Yelahanka New Town Sub Division**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no141, PWD SR 2015-16)	Cum							
	Desilting of drains		2	365.00	0.45	0.30	98.55		
			2	130.00	0.45	0.30	35.10		
			2	6.00	1.20	1.00	14.40		
	Culverts		3	6.00	1.70	1.20	36.72		
							184.77	**83.16**	**15365.00**
	Basic Rate	77.00							
	Area Weightage @ 8%	6.16							
	Total	83.16							
2	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)g	sqm							
			2	365.00	1.35		985.50		
			2	130.00	1.35		351.00		
							1336.50		
		Deduct 30%of Missing slabs qty					400.95		
							935.55	**63.72**	**59613.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	63.72							
3	Refixing stone slabs of drains and pointing in CM(1:3)(P.No 25 I.No 5.33)	Sqm							
			Vide Item No. 2				**935.55**	**78.84**	**73759.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	78.84							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick(P.No 25 I.No	sqm							
		30%of Missing slabs qty					**400.95**	**663.12**	**265877.96**
	Basic Rate	614.00							
	Area Weightage @ 8%	49.12							
	Total	663.12							

5	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no130,PWD SR 2015-16	Cum							
			Vide Item No. 1				**184.77**	**73.44**	**13570.00**
	Basic Rate	68.00							
	Area Weightage @ 8%	5.44							
		73.44							
6	KSRRBM400-17,Providing, laying, spreading andcompacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site,laying in uniform layers with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired dencity complete as per specifications.MORTH Specification No.406(Item no20.18,Page no157 ,PWD SR 205-16)	Cum							
	Road cut portion		25	5.50	1.00	0.20	27.50		
			1	350.00	0.75	0.20	52.50		
			1	140.00	0.75	0.20	21.00		
							101.00	**1713.96**	**173110.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	1713.96							
7	KSRRB M500-6,Providing and applying primer coat with S.S.bitumen emulsion on prepared surface of granular base such as WBM,WMM including cleaning of road surfase and spraying primer at the rate of .60kg/Sqm using mechanical means complete as per specifications. MORTH Specifications No502 (ITEMNO21.6,Page no160,PWD SR 2015-16)	Sqm							
	14th A cross		1	365.00	5.50		2007.50		
	13th A cross		1	130.00	5.00		650.00		
			4				**2657.50**	**32.40**	**86103.00**

	Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	32.40							
8	KSRRB M500-18.Providing and laying semi dense bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler,transporting the hot mix to work site.laying with a paver finisher to the required grade,levell and alignment,rollingwithsmoothwheeled,vibratoryandtandemrollers to achievethedesiredcompactionasperMORTHSpecificationclauseno508completeinallrespectscompleteasperspecifications.using 100120THcapacityH.M.P with sensor paver grading (35-40mm) with4.5%CRMB55grade(Itemno21.21.1,Pageno160 2015-16)	Cum							
	163		1	365.00	5.50	0.030	60.23		
			1	130.00	5.00	0.030	19.50		
	Depression filling		35	5.50	1.00	0.030	5.78		
							85.50	**9264.24**	**792093.00**
	Basic Rate	8578.00							
	Area Weightage @ 8%	686.24							
	Total	9264.24							
9	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications. Specification no KBS4.1,4.2 (Item no 4.3,Page no12,PWD SR 2015-16)	Cum							
	Culverts		3	6.00	1.10	0.23	4.55		
							4.55	**5070.60**	**23092.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	5070.60							

10	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming etc as per specification&direction of the engineer incharge of work (pwd sr2015-16,p.no13, no4.11) Specification has to be taken from PWD SR for 2015-16 item No. 4.11	Cum								
	For culvert bottom		3	6.00	1.10	0.20	3.96			
	Flagging		6	6.00	0.50	0.15	2.70			
	For deck slab		3	5.90	1.50	0.23	6.11			
	Ramp		6	0.85	6.00	0.10	3.06			
							15.83	**6198.12**	**98095.00**	
	Basic rate	5739.00								
	Add 8% AW	459.12								
	Total	6198.12								
11	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe500(pwd sr2015-16,p.no17,s.no4.46)	Qtl							6980.58 42651	
							6.11	**6980.04**	**42624.00**	
	100 kg / cum									
	Basic rate	6463.00								
	Add 8% AW	517.04								
	Total	~~6980.04~~ 6980.58								
12	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.Specification no.KBS 4.6.2(pwd sr2015-16,p.no15/4.31)	Sqm								
	Deck slab		3	5.90	1.00		17.70			
							17.70	**306.72**	**5429.00**	
	Basic rate	284.00								
	Add 8% AW	22.72								
	Total	306.72								

13	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.No 23, I.No 5.60)	Cum							
	Side wall		6	5.90	0.45	0.75	11.95	4135.32	49407.00
	Basic rate	3829.00							
	Add 8% AW	306.32							
	Total	4135.32							1835
									1862.04
14	Miscellaneous charges	L/S						Total RS	1700000.00
	(Rupees seventeen lakh only)								

Certificate

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 04

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Approval
Accorded For 1700000/-
Head of A/C P-1771
CER NO 115 **Dt:** 01.01.2016

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 17.00 Lakhs
Rupees Seventeen Lakhs
Under P. 1771. 2015-16
Registered as CE ( ) No. ... a
Subject to conditions contained in
enclosed memo EE ( ) No. ... /R/
Dt. ... Estimate A/ Sanctioned
CE/YNK/TS/90/15-16 17.00 Lakhs
Dated 2-1-16 Rs. ...
Executive Engineer